Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	30	"metasearch engine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/21 21:39
L2	1	1 and unsupervised	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/21 21:40
L3	21	"unsupervised clustering" and "raw data"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/21 21:40
L5	31	query same metasearch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/21 21:41
L6	3771	(707/1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43
L7	1935	(707/2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43
L8	4801	(707/3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43
L9	2982	(707/100).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43
L10	1656	(707/101).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43

L12	2741	(707/102).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/21 21:43

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1 **Using online relevance feedback to build effective personalized metasearch engine**
Zhu Shanfeng; Deng Xiaotie; Chen Kang; Zheng Weimin;
Web Information Systems Engineering, 2001. Proceedings of the Second International Conference on , Volume: 1 , 3-6 Dec. 2001
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Mishra, R.K.; Prabhakar, T.V.;
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Zonghuan Wu; Vijay Raghavan; Hua Qian; Rama, K.V.; Weiyi Meng; Hai He; Yu, C.;
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Weiyi Meng; Clement Yu; King-Lup Liu;
Cooperative Information Systems, 1999. CoopIS '99. Proceedings. 1999 IFCIS International Conference on , 2-4 Sept. 1999
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[Abstract] [PDF Full-Text (872 KB)] IEEE CNF

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Lawrence, S.; Giles, C.L.;
Internet Computing, IEEE , Volume: 2 , Issue: 4 , July-Aug. 1998
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Benitez, A.B.; Beigi, M.; Shih-Fu Chang;
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Bianchi-Berthouze, N.;
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Wang, W.; Meng, W.; Yu, C.;
Web Information Systems Engineering, 2000. Proceedings of the First International Conference on , Volume: 1 , 19-21 June 2000
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[Abstract] [PDF Full-Text (728 KB)] IEEE CNF

11 **Feature selection in Web applications by ROC inflections and powerset pruning**
Coetzee, F.M.; Glover, E.; Lawrence, S.; Giles, C.L.;
Applications and the Internet, 2001. Proceedings. 2001 Symposium on , 8-12 Jan. 2001
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12 **Information retrieval with distributed databases: analytic models of**

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Losee, R.M.; Church, L., Jr.;
Parallel and Distributed Systems, IEEE Transactions on , Volume: 15 , Issue: 1 , Jan. 2004
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[Abstract] [PDF Full-Text (297 KB)] IEEE JNL

13 **Reducing the information overload: a method on helping students research engineering topics using the Internet**
Rockland, R.H.;
Education, IEEE Transactions on , Volume: 43 , Issue: 4 , Nov. 2000
Pages:420 - 425

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Chan, S.K.M.; Shiu, J.K.H.;
Advanced Information Networking and Applications, 2004. AINA 2004. 18th International Conference on , Volume: 2 , 29-31 March 2004
Pages:481 - 484 Vol.2

[Abstract] [PDF Full-Text (284 KB)] IEEE CNF

15 **Information classification using fuzzy knowledge based agents**
Camacho, D.; Hernandez, C.; Molina, J.M.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volume: 4 , 7-10 Oct. 2001
Pages:2575 - 2580 vol.4

[Abstract] [PDF Full-Text (450 KB)] IEEE CNF

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1 Research track papers: A probabilistic framework for semi-supervised clustering
Sugato Basu, Mikhail Bilenko, Raymond J. Mooney
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(187.51 KB) Additional Information: full citation, abstract, references, index terms

Unsupervised clustering can be significantly improved using supervision in the form of pairwise constraints, i.e., pairs of instances labeled as belonging to same or different clusters. In recent years, a number of algorithms have been proposed for enhancing clustering quality by employing such supervision. Such methods use the constraints to either modify the objective function, or to learn the distance measure. We propose a probabilistic model for semi-supervised clustering based on Hidden Mar ...

Keywords: distance metric learning, hidden Markov random fields, semi-supervised clustering

2 Unsupervised and supervised clustering for topic tracking
Martin Franz, Todd Ward, J. Scott McCarley, Wei-Jing Zhu
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(302.02 KB) Additional Information: full citation, abstract, references, index terms

We investigate important differences between two styles of document clustering in the context of Topic Detection and Tracking. Converting a Topic Detection system into a Topic Tracking system exposes fundamental differences between these two tasks that are important to consider in both the design and the evaluation of TDT systems. We also identify features that can be used in systems for both tasks.

3 Technical session 15: WWW image retrieval: Hierarchical clustering of WWW image search results using visual, textual and link information
Deng Cai, Xiaofei He, Zhiwei Li, Wei-Ying Ma, Ji-Rong Wen
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, index terms

We consider the problem of clustering Web image search results. Generally, the image search results returned by an image search engine contain multiple topics. Organizing the results into different semantic clusters facilitates users' browsing. In this paper, we propose a hierarchical clustering method using visual, textual and link analysis. By using a vision-based page segmentation algorithm, a web page is partitioned into blocks, and the textual and link information of an image can be accu ...

Keywords: graph model, image clustering, link analysis, search result organization, spectral analysis, vision based page segmentation, web image search

4 Technical session 13: managing images: Locality preserving clustering for image database

Xin Zheng, Deng Cai, Xiaofei He, Wei-Ying Ma, Xueyin Lin

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, index terms

It is important and challenging to make the growing image repositories easy to search and browse. Image clustering is a technique that helps in several ways, including image data preprocessing, user interface designing, and search result representation. Spectral clustering method has been one of the most promising clustering methods in the last few years, because it can cluster data with complex structure, and the (near) global optimum is guaranteed. However, existing spectral clustering algo ...

Keywords: image clustering, locality preserving clustering, locality preserving projections, spectral clustering

5 Meeting experience: Experiential meeting system

Ramesh Jain, Pilho Kim, Zhao Li

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**

Full text available: pdf(388.84 KB) Additional Information: full citation, abstract, references, index terms

We are developing experiential meeting systems to allow people to be tele-present in a remote meeting and to be able to review proceedings of a meeting or of several meetings using all the data recorded in a meeting. We consider this as a problem in management and experiential access to all multimedia data acquired in a meeting. The data includes video, audio, presentations, text material, databases and websites related to people and the discussions in the meeting, and any other data or informat ...

Keywords: data event, elemental event and domain event, event, event based data processing, experiential systems, meeting

6 Image annotation and video summarization: Video summarization based on user log enhanced link analysis

Bin Yu, Wei-Ying Ma, Klara Nahrstedt, Hong-Jiang Zhang

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(771.50 KB) Additional Information: full citation, abstract, references, index terms

Efficient video data management calls for intelligent video summarization tools that automatically generate concise video summaries for fast skimming and browsing. Traditional video summarization techniques are based on low-level feature analysis, which generally fails to capture the semantics of video content. Our vision is that users unintentionally embed their understanding of the video content in their interaction with computers. This valuable knowledge, which is difficult for computers to l ...

Keywords: link analysis, log mining, skimming, user behavior, video content analysis, video summarization

7 Clustering: Learning to cluster web search results

Hua-Jun Zeng, Qi-Cai He, Zheng Chen, Wei-Ying Ma, Jinwen Ma

July 2004 **Proceedings of the 27th annual international conference on Research and development in information retrieval**

Full text available: pdf(210.38 KB) Additional Information: full citation, abstract, references, index terms

Organizing Web search results into clusters facilitates users' quick browsing through search results. Traditional clustering techniques are inadequate since they don't generate clusters with highly readable names. In this paper, we reformalize the clustering problem as a salient phrase ranking problem. Given a query and the ranked list of documents (typically a list of titles and snippets) returned by a certain Web search engine, our method first extracts and ranks salient phrases as candidate c ...

Keywords: document clustering, regression analysis, search result organization

8 QueryTracker: An Agent for Tracking Persistent Information Needs

Gabriel Somlo, Adele E. Howe

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**

Full text available: pdf(383.94 KB) Additional Information: full citation, abstract

Most people have long term information interests. Current Web search engines satisfy immediate information needs. Specific sites support tracking of long term interests. We present an agent that satisfies a gap in these services. QueryTracker implements a search engine interface with state. A userýs query and a learned alternative is automatically submitted daily to a search engine. A profile of the userýs interest is constructed based on user relevance feedback. Daily search results are dissemi ...

9 Brave new topics -- session 3: the effect of benchmarking on advances in semantic video: On the detection of semantic concepts at TRECVID

Milind R. Naphade, John R. Smith

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(287.92 KB) Additional Information: full citation, abstract, references, index terms

Semantic multimedia management is necessary for the effective and widespread utilization of multimedia repositories and realizing the potential that lies untapped in the rich multimodal information content. This challenge has driven researchers to devise new algorithms and systems that enable automatic or semi-automatic tagging of large scale multimedia content with rich semantics. An emerging research area is the detection of a predetermined set of semantic concepts that can act as semantic ...

Keywords: NIST TRECVID benchmark, average precision, semantic concept detection

10 Technical poster session 3: multimedia tools, end-systems, and applications: Cortina: a system for large-scale, content-based web image retrieval

Till Quack, Ullrich Mönich, Lars Thiele, B. S. Manjunath

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(186.03 KB) Additional Information: full citation, abstract, references, index terms

Recent advances in processing and networking capabilities of computers have led to an accumulation of immense amounts of multimedia data such as images. One of the largest repositories for such data is the World Wide Web (WWW). We present Cortina, a large-scale image retrieval system for the WWW. It handles over 3 million images to date. The system retrieves images based on visual features and collateral text. We show that a search process which consists of an initial query-by-keyword or quer ...

Keywords: MPEG-7, WWW, association rules, clustering, large-scale, online, relevance feedback, semantics, web image retrieval

11 Cross-lingual C*ST*RD: English access to Hindi information

Anton Leuski, Chin-Yew Lin, Liang Zhou, Ulrich Germann, Franz Josef Och, Eduard Hovy
September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 3
Full text available: pdf(210.61 KB) Additional Information: full citation, abstract, references, index terms

We present C*ST*RD, a cross-language information delivery system that supports cross-language information retrieval, information space visualization and navigation, machine translation, and text summarization of single documents and clusters of documents. C*ST*RD was assembled and trained within 1 month, in the context of DARPA's Surprise Language Exercise, that selected as source a heretofore unstudied language, Hindi. Given the brief time, we could not create deep Hindi capabilities for all th ...

Keywords: Cross-language information retrieval, Hindi-to-English machine translation, headline generation, information retrieval and information space navigation, single- and multi-document text summarization

12 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3
Full text available: pdf(281.37 KB) Additional Information: full citation, abstract, citings, index terms

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

13 Full Technical Papers: Learning implicit user interest hierarchy for context in personalization

Hyoung R. Kim, Philip K. Chan
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**
Full text available: pdf(191.53 KB) Additional Information: full citation, abstract, references, index terms

To provide a more robust context for personalization, we desire to extract a continuum of general (long-term) to specific (short-term) interests of a user. Our proposed approach is to learn a user interest hierarchy (UIH) from a set of web pages visited by a user. We devise a divisive hierarchical clustering (DHC) algorithm to group words (topics) into a hierarchy where more general interests are represented by a larger set of words. Each web page can then be assigned to nodes in the hierarchy f ...

Keywords: clustering algorithm, concept clustering, user interest hierarchy, user profile

14 Classification: Categorizing information objects from user access patterns

Mao Chen, Andrea LaPaugh, Jaswinder Pal Singh
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: pdf(321.09 KB) Additional Information: full citation, abstract, references, index terms

Many web sites have dynamic information objects whose topics change over time. Classifying these objects *automatically* and *promptly* is a challenging and important problem for site masters. Traditional content-based and link structure based classification techniques have intrinsic limitations for this task. This paper proposes a framework to classify an object into an existing category structure by analyzing the users' traversals in the category

structure. The key idea is to infer a ...

Keywords: category structure, classification, dynamic object, multimedia, prediction, user accesses

15 Theory of keyblock-based image retrieval

April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, index terms, review

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

16 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

17 Segmentation-based modeling for advanced targeted marketing

C. Apte, E. Bibelnieks, R. Natarajan, E. Pednault, F. Tipu, D. Campbell, B. Nelson

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(477.55 KB) Additional Information: full citation, abstract, references, citings, index terms

Fingerhut Business Intelligence (BI) has a long and successful history of building statistical models to predict consumer behavior. The models constructed are typically segmentation-based models in which the target audience is split into subpopulations (i.e., customer segments) and individually tailored statistical models are then developed for each segment. Such models are commonly employed in the direct-mail industry; however, segmentation is often performed on an ad-hoc basis without directly ...

Keywords: Segmentation-based models, decision trees, feature selection, linear regression, logistic regression, targeted marketing

18 Efficient clustering of high-dimensional data sets with application to reference matching

Andrew McCallum, Kamal Nigam, Lyle H. Ungar

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(273.86 KB) Additional Information: full citation, references, citings, index terms

19 An interactive comic book presentation for exploring video

John Boreczky, Andreas Girgensohn, Gene Golovchinsky, Shingo Uchihashi

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a method for generating compact pictorial summarizations of video. We developed a novel approach for selecting still images from a video suitable for summarizing the video and for providing entry points into it. Images are laid out in a compact, visually pleasing display reminiscent of a comic book or Japanese manga. Users can explore the video by interacting with the presented summary. Links from each keyframe start video playback and/or present additional detail. Caption ...

Keywords: keyframe extraction, video browsing, video summarization

20 Enhanced hypertext categorization using hyperlinks

Soumen Chakrabarti, Byron Dom, Piotr Indyk

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

A major challenge in indexing unstructured hypertext databases is to automatically extract meta-data that enables structured search using topic taxonomies, circumvents keyword ambiguity, and improves the quality of search and profile-based routing and filtering. Therefore, an accurate classifier is an essential component of a hypertext database. Hyperlinks pose new problems not addressed in the extensive text classification literature. Links clearly contain high-quality semantic clues that ...

Results 1 - 20 of 20

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